

The Future Medical Shelter System is unveiled

In a public ceremony Nov. 4, BWXT Y-12 unveiled a significant new technology for the future treatment of wounded soldiers.

The Future Medical Shelter System is a highly mobile two-table operating room that can be set up virtually anywhere and perform trauma surgery in a matter of minutes. Duane Bias is the project manager, and Lee Bzorgi is the lead engineer.

While currently designed as a surgical suite, FMSS has enormous potential for other uses. "The reality is that we could turn the surgical suite into anything from a command and control center to a logistics or operations center with few modifications. So, utility to all facets of the services, or to Guard and Reserve units, is significant, and the potential use for homeland defense response activities is huge," Bias said.

Rep. Zach Wamp, who represents Tennessee's third district, said, "This technology will save American lives. If we ask our soldiers to go and fight, and they get wounded, we don't want them to wait for treatment. The FMSS will help them get life-saving treatment as soon as possible." Wamp has been a long-time champion of this innovative battlefield technology.

"The FMSS can literally go from the back of a truck to 'ready to receive patients' in about 30 minutes," Bias said.



Rep. Zach Wamp studies a poster detailing the Future Medical Shelter System along with several boy scouts from Troop 129 of Oak Ridge, who served as the color guard at the ceremony.

Pancake breakfast



Dennis Ruddy serves breakfast during BWXT Y-12's Third Anniversary Employee Appreciation Pancake Breakfast. Several thousand employees enjoyed a complimentary breakfast of pancakes, eggs, sausage and bacon served as a thank you for the numerous successes of the past three years.

Bear Creek Road opens



Denny's Desk . . .

Commit to Safety

Commitment is a word that should never be taken lightly. We all have commitments in our personal and professional lives. Family, career, volunteer work, etc., are all important commitments. Safety is another commitment that spans both our work and home environments. A conscious commitment to safety is something we all need to take seriously.

The following factors influence the possibility of an injury in the workplace:

- the procedures and processes we use;
- tooling, equipment and facilities; and
- what we do when we work.

To work safely, we need to continually manage all three. We all know we can have the best procedures and the best



facilities and still make mistakes. With the nature of our mission at Y-12, the emphasis on conditions and procedures is absolutely crucial. We are very good at managing these factors, but we can do even better.

To create a safe work environment, we must identify and eliminate unsafe conditions and recognize and incorporate safe conditions and practices in our work. It is critical that each of us takes the time to assess our own work areas for any potential hazards.

When an accident does occur, it is usually the result of an unsafe condition or practice that may have existed for a long time. In other cases, poor work habits and lack of understanding of safe work practices are major contributors to injuries.

Over the next few months, we will begin to learn and implement the tools of behavior-based safety, which will focus on the actions that have produced injuries or near misses and help us to identify ways to improve. Together we can ensure a safer, accident-free Y-12.

Directed Stockpile Work—Minuteman III Missile Test Flight

The early morning fog at Vandenberg Air Force Base in California was illuminated by a Minuteman III missile leaving its silo. The 60-foot-tall, 80,000-pound missile quickly became a rapidly receding black dot in the sky as it headed down range, traveling at almost 13,400 mph, to its target in the Marshall Islands.

Larry Snow, Enduring Stockpile program manager for Directed Stockpile Work, and Kevin McElmurray, Joint Test Assemblies product engineer from Engineering, attended the Sept. 10 test firing as guests of the U.S. Air Force and Los Alamos National Laboratory.

"Y-12 built parts for two of the three vehicles on this mission and their presence on board is critical to the success of both vehicles," said Joe Bowden, a lead system engineer at LANL, in his letter of invitation.

Such missile test firings are part of a national program to demonstrate to the world the capabilities and combat readiness of the nation's main weapon systems—they are demonstrations for deterrence.

Representatives from Pantex, the National Nuclear Security Administration, LANL, Sandia National Laboratories and the Kansas City Plant also attended. Such tests let the people who build components and those who use them meet and learn about each other's contributions to national security. The personal interaction among the visitors and with the Air Force personnel is an important part of the way we do business.

"Watching the launch was the final event in our visit and followed pretest tours of a silo and missile assembly facility," Snow said. "It reinforced my belief in the importance of our work at Y-12."

McElmurray seconded Snow's view: "This visit allowed me to see firsthand that a test flight is a massive undertaking requiring the efforts of many people. I was proud to represent Y-12, knowing that many of my dedicated coworkers had contributed to the success of this flight."



Kevin McElmurray (far left) and Larry Snow (far right) join Joe Bowden of LANL and Staff Sergeant Chris Sergeant, U.S. Air Force, on top of a Minuteman III test-launching facility silo during a pretest tour.



An earlier Minuteman III test missile is fired from one of the Vandenberg Air Force Base test facilities.

Miller appointed to OR City Council

Jane Miller of Public and Governmental Affairs is the newest member of the Oak Ridge City Council. Miller was appointed by the council to fill the seat left vacant by former Councilman Jerry Kuhaida's departure to work in Iraq.

Miller joins fellow Y-12ers Leonard Abbatiello (Applied Technologies) and David Mosby (Projects) on the council. She will serve in this capacity until the next election.



Time to get it right

Time really is of the essence, especially at BWXT Y-12. During the last year, BWXT Y-12 has revised a number of time collection procedures; updated time-charging business practices, including initiating weekly floor checks; and developed several training tools to promote the importance of accurately accounting for every minute on the job.

One of the training tools developed was a charging practices awareness video, which is required viewing for all employees. To shoot the video, some homegrown talent (aka Y-12 employees) was used to act out various scenarios of what not to do when it comes to charging time.

“Well, we may not win any Academy Awards for the performances, but all of our ‘actors’ did a great job of portraying typical time-charging situations we encounter here at Y-12,” said Mike Farmer of Financial Management. “Plus, we tend to pay more attention to what’s being said when we see our co-workers up on the screen.”

The video, which was produced by Communications Services on a tight schedule, was well received. In fact, Chief Financial Officer Glenn Kizer noted that BWXT Y-12’s corporate offices and other sites have been calling to find out how to “buy” a copy of the video.

Although Father Time marches on for all of us, it’s up to each employee to ensure the accuracy of time records and adhere to the company’s time-charging practices and policies. For more information, contact Everett Rausin, assistant controller, at 574-9964 or rau@y12.doe.gov.

“If you put your integrity on the line in one place, you put it on the line everywhere. If we don’t have integrity financially, why would anybody think we have integrity from a quality standpoint or an ethical standpoint?”
—Dennis Ruddy

Some time-charging dos and don’ts

Do

- Charge the total amount of time worked to the correct charge code for that work.
- Enter total hours worked (and only hours worked) into time collection systems.
- Charge hours worked at home only if approved under Y11-613, *Flexible Workplace Program*.

Don’t!

- Begin work before having a charge code.
- Charge the wrong code as a “temporary holding place” with intent to transfer the cost to “the right place” later.
- Change time unless you made an error in charging it.
- Enter time in advance except as allowed under Y30-511, *Time Collection*.
- Use funds authorized for a specific program for any other program.

BWXT Y-12 continues LEIC partnership with UT

Continuing a successful partnership with The University of Tennessee’s Institute for Public Service, BWXT Y-12 has agreed to continue its support for Mike Sullivan of National Security Programs to serve as executive director of the Law Enforcement Innovation Center.

Sullivan has been the director of the center for two years, and BWXT Y-12 President and General Manager Dennis Ruddy recently decided to continue Sullivan’s loaned executive status to the LEIC.

“This is a significant partnership with the University of Tennessee,” Sullivan said, “Law enforcement agencies throughout the Southeast in particular and the nation overall are benefiting from

BWXT Y-12’s generous gesture.”

As the executive director, Sullivan’s role is to lead LEIC to become the premier vehicle of assisting city, county and state law enforcement agencies with innovative solutions to difficult problems in police executive leadership training, community law enforcement programs, advanced law enforcement technologies and advanced operational training.

Sullivan served a 31-year career in the U.S. Army. His final Army assignment was as the Deputy Commander of the United States Army Criminal Investigation Command. Before being loaned to UT, Mike worked with the Protective Services Organization and was the PSO director until April 2000.

Annual open enrollment for Benefit Plans

Open enrollment for Flexible Spending Accounts as well as dental and medical plans began on Nov. 3 and will continue through Nov. 21. A self-service option is available this year. The Employee Self-Service application (1) allows you to make your open enrollment elections from your personal computer, (2) eliminates completing separate paper forms for each election and (3) allows you to print a confirmation statement directly from the application. The *User’s Guide* or Help options on the left side of the screen provide additional information regarding use of the application. If you prefer paper forms, they are still available. Both options, as well as additional information on open enrollment, can be accessed from the Benefits Delivery home page at www.y12.doe.gov/benefits/bp-delivery.

McNew, Cochran, Davis and Hensley receive Bechtel scholarships

Brent McNew, Clay Cochran, Leah Davis and Deanna Hensley are recipients of Bechtel Systems Infrastructure Inc. citizen scholarships.

The scholarship provides \$2,000 for college-level study. The scholarships are given based on academic record and demonstrated leadership. Bechtel Corporation is one of the parent companies of BWXT Y-12.

Brent is the son of Steve McNew of Financial Management. Brent is a 2003 graduate of Loudon High School and is attending Furman University majoring in chemistry.

Clay Cochran is the son of Karren Cochran in the Information and Materials division. A graduate of Maryville High School, Clay plans to major in chemical engineering at Tennessee Technological University.

Deanna Hensley is the daughter of Gary Hensley of Facilities, Infrastructure and Services. She is a graduate of Midway High School in Kingston and is now attending Austin Peay University majoring in chemistry and biology.

Leah Elise Davis is the daughter of William Earl Davis of FI&S. She graduated from Clinton High School and is attending the University of Kentucky to pursue a degree in pharmacy.



From left, Deanna Hensley, Brent McNew and Leah Davis receive Bechtel citizen scholarships. Not pictured: Clay Cochran.

Safeguards and Security completes milestone



President and General Manager Dennis Ruddy (left center) hands the signed *Site Safeguards and Security Plan* to Sharon Daly of the National Nuclear Security Administration while Safeguards and Security staff members K.J. Maddux (far left) and Dexter Beard look on. The handoff represents a significant accomplishment for the Safeguards and Security division as well as the company. The document, which details Y-12's site protection measures, has been transmitted to U.S. Department of Energy Headquarters.

Mind your security p's and q's

Remember—DOE's Office of Independent Oversight and Performance Assurance is conducting its annual review in November and December.

The OA auditors began their visit Nov. 3 and will complete on-site activities, including field data collection and force-on-force exercises, by Dec. 19.

YES sponsors holiday party

Y-12 employees, families and Y-12 retirees are cordially invited to the fourth annual Y-12 Holiday Celebration. The celebration is scheduled for Tuesday, Dec. 9, from 5-8 p.m. at Crown Court in the Oak Ridge Mall.

Sponsored by the Y-12 Employees' Society, the celebration will feature food, music, and children's activities and gifts (across from Crown Court).

Watch *Y Source* for more details.

Nebulizers help 'clear the air'

The Y-12 National Security Complex's Occupational Health Services has acquired three new nebulizers. Although it sounds like Dr. Evil's latest diabolical weapon to thwart Austin Powers, a nebulizer is actually a breathing treatment machine for use in medical emergencies.

For those with severe allergic reactions to penicillin, bee stings and other insect bites, foods (such as peanuts) or the dyes used in special medical procedures or for those who have health problems such as asthma, chronic lung or beryllium disease, cystic fibrosis or acute bronchitis, a nebulizer could be a lifesaver in every sense of the word.

Severe reactions or acute health problems often cause the body's air passageways to constrict, thus cutting off the body's oxygen supply. Through a breathing tube, the nebulizer administers a medication that is absorbed into the body and opens up airways within seconds. A medical emergency of this type would be followed up by a visit to a local hospital's emergency room.

"It's pretty exciting to have this technology available to employees," said Claudia Marlar, a

nurse practitioner in Occupational Health Services. "Every employee could potentially benefit from this equipment, because you never know when a life-threatening emergency might occur."

The recipients of the three new nebulizers will be Occupational Health Services in Building 9706-2, the Medical Staging Depot on Y-12's east end and the East Tennessee Technology Park. In addition, Y-12 ambulances are equipped with nebulizers.

Jessie Duncan of Communications Services is glad to have the nebulizers on hand. Duncan had a recent close call at home as a result of a severe reaction to several bee stings.

"With all the insects here at Y-12, it's nice to know that I'm covered at work if I should get stung again," said Duncan.

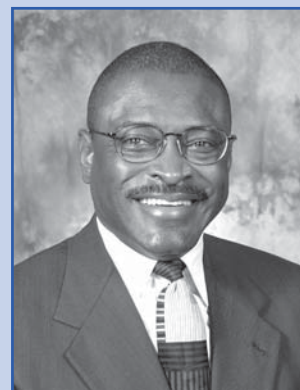
For more information about the nebulizer, contact Marlar at 574-1577 or e-mail cmp@y12.doe.gov.

Gloria Lane, a nurse with Occupational Health Services, assists Jessie Duncan in demonstrating one of Y-12's newly acquired nebulizers, a breathing treatment machine for use in medical emergencies.



Y-12 and TSU strengthen mentoring program

As part of its mentor-protégé agreement, BWXT Y-12 is providing a loaned executive to Tennessee State University to lead cooperative efforts between the company and the university.



Benjamin Thomas

Under the recently signed agreement, Benjamin Thomas, a project manager in Technical Computing, will provide a technology/management bridge between the two institutions. Thomas may serve in this capacity for up to five years.

Dennis Ruddy, president and general manager, said that the loaned executive initiative "will significantly contribute to BWXT Y-12's achieving its objectives of promoting technological growth and business development opportunities within TSU. It will further serve as a means for ensuring that a higher percentage of minority students are aptly prepared with the engineering and science skills that are so critically needed in support of Y-12 national security missions."

Under the agreement, Thomas will be co-located between Nashville and Oak Ridge working with TSU on the program. BWXT Y-12 and TSU established their mentor-protégé agreement in December 2001. TSU, located in Nashville, is a historically black college and university.

Thomas will coordinate TSU's participation in a program designed to double the number of minority students majoring in science, technology and engineering.

The BWXT Y-12/TSU mentor-protégé agreement is the first of its kind in the National Nuclear Security Administration's nuclear weapons complex and the first within the U.S. Department of Energy.

Tour offers glimpse of early Oak Ridge

This year more than 300 visitors toured DOE's Oak Ridge facilities during the public tour, which ran from April through September.



Jim Alexander (standing), DOE public tour host, speaks with tour participants before the group's departure.

The tour focuses on the past and present missions of the Department of Energy Oak Ridge facilities and is intended primarily for visitors who have a nontechnical interest.

A new chapter in Oak Ridge's tourism efforts opened in September with the debut of a driving audio tour of the Secret City. The self-guided tour, which lasts approximately one hour, captures and recreates the lifestyles and work efforts of the Manhattan Project's settlement families in the 1940s.

The tour provides a wealth of information as it leads visitors through the cemento-home neighborhoods, proceeding through the historic Jackson Square shopping area to the city's first and, for a long time, only church, the Chapel on the Hill.

The tour is available on tape or compact disc at the Oak Ridge Convention and Visitors Bureau. For more information, contact the visitors bureau at 482-7821 or on the Web at www.oakridgevisitor.com.

AT promotes Y-12 technologies

It's not unusual for developments at Y-12 to remain unrecognized by the public. However, there are some developments that remain unknown even to our own employees.

The Applied Technologies division plans to change that fact.

According to Chris Clark of the division's Technology Deployment group, Y-12 has many cutting-edge technologies in use or under development.

Y-12 currently operates four research and development micro-waves and a production-scale prototype in Manufacturing. The microwave metal melting and processing techniques developed at Y-12 show extraordinary potential for the metal-working and ceramic industries.

For more information on Applied Technologies, contact Kevin Finney (xkr; 574-1736).

Conduct of Operations improvement plan for Y-12

You may have heard the recent buzz around Y-12 about Conduct of Operations. You may be asking yourself what CONOPS is really all about. CONOPS is about rigor, formality and, most of all, discipline. Hallmarks of a good CONOPS program include having a questioning attitude, proper training, attention to detail, conservative decision making, proper fact finding and reporting of abnormal or unusual conditions.

The mission of the CONOPS improvement project is to provide an integrated, comprehensive action plan that will result in marked improvement.

Proper CONOPS results in a safe workplace, plain and simple. BWXT Y-12 is in the process of developing an aggressive program in this arena, and you will soon hear much more information about CONOPS as the plan is implemented.

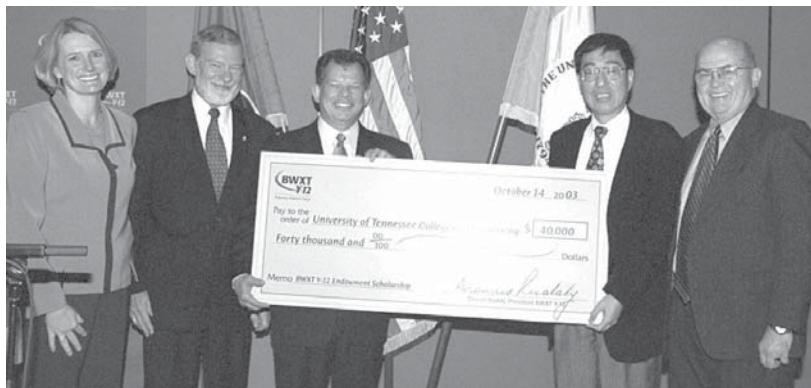
"The health and safety of the public and workers rest on a properly trained workforce accomplishing tasks in a formal, deliberate fashion in accordance with reviewed and approved procedures."

—Defense Nuclear Facilities Safety Board
Annual Report to Congress (February 1994)

Engineering scholarship established

BWXT Y-12 has established a permanent endowment scholarship at The University of Tennessee, Knoxville, College of Engineering. In the photo, Pam Horning, Engineering division manager (at left), and Dennis Ruddy, president and general manager (third from left), present a check to UTK representatives (from left) Loren Crabtree, chancellor; Way Kuo, the new dean of the College of Engineering, and Dr. Joe Johnson, interim president.

At the ceremony, Ruddy said, "With the scholarship program, the company hopes to attract and retain engineering graduates to the Y-12 National Security Complex to help maintain its capability to meet its national security missions."



Researcher reflects on 50 years at Y-12

Technology Development researcher Rayburn C. Waldrop, who observed 50 years of company service at Y-12 on Sept. 1, says he's lucky. A few years after arriving here, he accidentally found his niche in electroplating science—and the demands for innovative electroplating techniques, and the challenges posed, have sparked him ever since.

"It's like magic," Waldrop said. "Put two electrodes into an electrolyte solution, and you make metal out of a solution."

A holder of five patents, the 82-year-old Waldrop has made major contributions in 11 significant programs. He's worked on everything from Y-12's Alloy Development Program in 1953 to ORNL's Spallation Neutron Source, which has Waldrop devising a technique for thick cadmium plating at a very difficult location—"almost unheard of."

Over the years, he's fashioned new ways to work with nickel, copper, gold, lead, cadmium and zinc. In one project, he saved Y-12 more than \$3 million.

As a "new hire," Waldrop recalled being impressed with how Y-12 "got the job done."

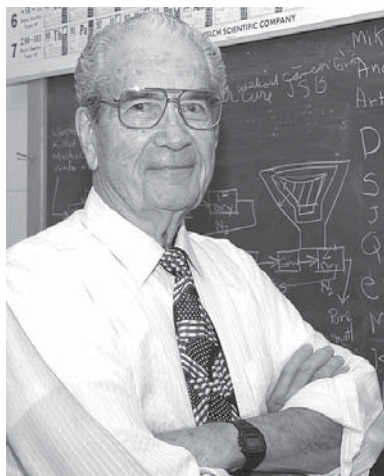
"It was like a beehive on the ADP on that second floor (of Alpha 2)," he said. "That was my first impression, and it's stuck with me."

Various coworkers have made an impact, too.

"I've had the privilege to work with some extremely intelligent people," he said.

His enthusiasm for his work spurs him to encourage others to consider science careers.

"The technical field is where they ought to be," Waldrop said. Among other rewards, he said, there's the feeling of achieving something no one else has ever done.



Ray Waldrop enjoys his work, whether he's refining his expertise in electroplating at Y-12 or cultivating his roses at home.

Waldrop recalls Navy days in World War II

Ray Waldrop is also a veteran of World War II.

As a fledgling recruit on the U.S.S. Salt Lake City in March 1943, he was part of the four-

hour Battle of the Kormandorski Islands.

"It remains the longest surface engagement in the history of the Navy," Waldrop said. "I was scared to death. When a shell penetrates the steel hull of a ship, that shakes you like you've never been shook before."

Miraculously, only a couple of crewmen were lost that day.

"We did a lot of bombarding of islands after that—Iwo Jima, Okinawa, the Philippines," Waldrop said.

When the Japanese surrendered, he was 24. Three years of his life had passed.

"I wouldn't want to go through it again, but I grew up from the experience."

Service Anniversaries November

35 years

Engineering: Glenn R. Bridges

Facilities, Infrastructure and Services: Robert F. Anderson

Manufacturing: Carl D. Ford, Wayne Gibson, Richard C. Nelson, Tony J. Rogers, David A. Simpson

Planning and Integration: Roger K. Witt Jr.

Quality Assurance: Jimmy T. Bryson, Clarence F. Franklin, Lexie C. Morrow

30 years

Engineering: Sandra R. Asbury

25 years

Engineering: Charles A. Levin, Evelyn E. Zang

Environment, Safety and Health: Billy C. Brown

Facilities, Infrastructure and Services: Kathleen F. Clark, Robert D. Gray, Willard R. Jones, Walter D. Lavender

Human Resources: Cindy R. Cavender, Kenneth S. Davis

Manufacturing: Michael L. Brown, Sharon B. Hawkins, Robert L. Woods

Projects: Christopher J. Hammonds

20 years

Engineering: John H. Gertsen, Jonathan D. Long

Facilities, Infrastructure and Services: Samuel R. Lyle

Financial Management: Darrell N. Sexton

Human Resources: Kemberly L. Phillips

Manufacturing: Beverly T. Calhoun, Sandra S. Price, Alicia J. Raymer

Quality Assurance: Jeanette W. Hayes

BWXT Y-12 receives Eisenhower Award



Congressman Zach Wamp (R-TN) with the Dwight D. Eisenhower Award at the reception to honor BWXT Y-12. Congressman Wamp was the featured speaker at the event, which was held at the American Museum of Science and Energy.

Dennis Ruddy, center, president and general manager of BWXT Y-12, is congratulated by Beth Phillips of the Tennessee Department of Economic and Community Development and State Senator Randy McNally for receiving the Dwight D. Eisenhower Award from the Small Business Administration. The Eisenhower Award is the top governmental award for excellence in use of small businesses as subcontractors. This is the first time that any large government contractor in Oak Ridge has received this award.

Flu shot campaign begins at Y-12

It's time to roll up those sleeves and participate in the annual influenza vaccine campaign. Occupational Health Services will provide the vaccine to employees at the locations and times listed.

Any remaining vaccines will be administered in the Occupational Health Services Clinic beginning Tuesday, Dec. 2, through Thursday, Dec. 5, from 2 to 3 p.m. each day.

- **Building 9720-6 Large Conference Room**
Nov. 13 and 20, 8 a.m. to 2 p.m.
- **Building 9212, Conference Room No. 1**
Nov. 14, 9 a.m. to 4 p.m. and Nov. 21, 8 a.m. to noon
- **Building 9627, Classrooms 1 and 2**
Nov. 19, 8 a.m. to 10 a.m.
- **1099 Commerce Park, Room N50**
Nov. 19, 1 p.m. to 3 p.m.

BWX TYMES

Volume 3, No. 11
November 2003

P. O. Box 2009
Oak Ridge, TN 37831-8245
Published by Communications Partners
(Public and Governmental Affairs and Communications Services) **Melissa Leinart** editor, 865-574-1621 (6ml)

Other contributors:

Ellen Boatner	Brett Pate
Chris Clark	Kate Shaw
Kathy Fahey	Sandra Schwartz
Stuart Hames	Heidi Spurling
Kathryn King-Jones	Bill Wilburn
Tommy Maxwell	

Bldg. 9109, MS 8245 • Oak Ridge, Tennessee 37831

PRSRT
STD

U. S. Postage

PAID

Permit #36
Powell, TN